

In The Claim

1. (Currently Amended) A tray-out control method for moving out a loading tray of an optical drive comprising:

detecting whether an optical disk is paced on the loading tray;

5 applying a first forcing function to the loading tray when the optical disk is placed on the loading tray; and

applying a second forcing function to the loading tray when the optical disk is not placed on the loading tray;

wherein ~~a maximum value~~ an initial force of the second forcing function is larger
10 than ~~a maximum value~~ an initial force of the first forcing function.

2. (Original) The tray-out control method of claim 1 wherein the second forcing function is used to overcome a greater magnetic attraction.

15 3. (Original) The tray-out control method of claim 2 wherein the greater magnetic attraction is generated from a close contact between a spindle motor and a clamping device.

20 4. (Original) The tray-out control method of claim 1 wherein the first forcing function is used to overcome a lesser magnetic attraction.

25 5. (Original) The tray-out control method of claim 4 wherein the lesser magnetic attraction is generated from a non-close contact between a spindle motor and a clamping device.

6. (Original) The tray-out control method of claim 1 wherein the optical drive is vertically arranged.

7. (Currently Amended) A tray-out control method used in an optical drive for overcoming an attraction between a spindle motor and a clamping device comprising:

applying a first forcing function to a loading tray when the spindle motor and the clamping device are not closely in contact with each other; and

applying a second forcing function to a loading tray when the spindle motor and the clamping device are closely in contact with each other;

5 wherein ~~a maximum value~~ an initial force of the second forcing function is larger than ~~a maximum value~~ an initial force of the first forcing function.

8. (Original) The tray-out control method of claim 7 wherein when the spindle motor and the clamping device are not closely in contact with each other, an optical disk is
10 placed on the loading tray.

9. (Original) The tray-out control method of claim 7 wherein when the spindle motor and the clamping device are closely in contact with each other, an optical disk is not
15 placed on the loading tray.

10. (Original) The tray-out control method of claim 7 wherein the optical drive is vertically arranged.